

Introduction to Broadband For Public Safety

Presentation to

Public Safety Communications Advisory
Commission

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September 21, 2010



Outline

- What Broadband Enables
- Functional Capabilities
- Radio Spectrum & Allocations
- History
- Arizona & Broadband
- Questions / Discussion



What Broadband Enables

Broadband Enables:

- Email, Internet, etc. (generic Broadband today)
- Bulk data transfer video, records, diagrams
- Access to databases MVD, Photo ID, criminal history

Currently, Broadband Doesn't Enable:

- Public Safety level voice (signal loss, distance)
- No remote to remote direct capability

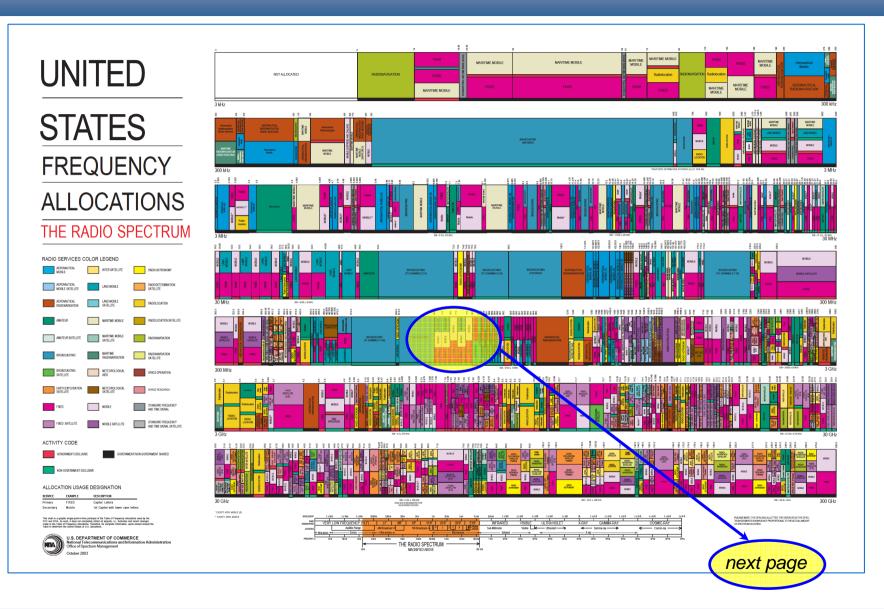


Broadband Functional Capabilities

- Field Access to Computer Aided Dispatch and Records Management Systems (CAD/RMS)
- Incident Video
- Broadband Data Dispatch
- Download of Building Schematics
- Mobile Access to Geographic Information System (GIS)
- Aerial Video / Robotic Video (cave-in, haz-mat scene, fire)
- Telemetry for responder location and biometric information
- Automatic Vehicle Location (AVL)
- Real time mapping for field supervision ...
- Making Incident Response safer, more efficient and more effective
- http://www.iwceexpo.com/iwce2010/CUSTOM/700MHz%20Whitepaper%20on%20Spectrum%20Feb%202010%20FINAL.pdf

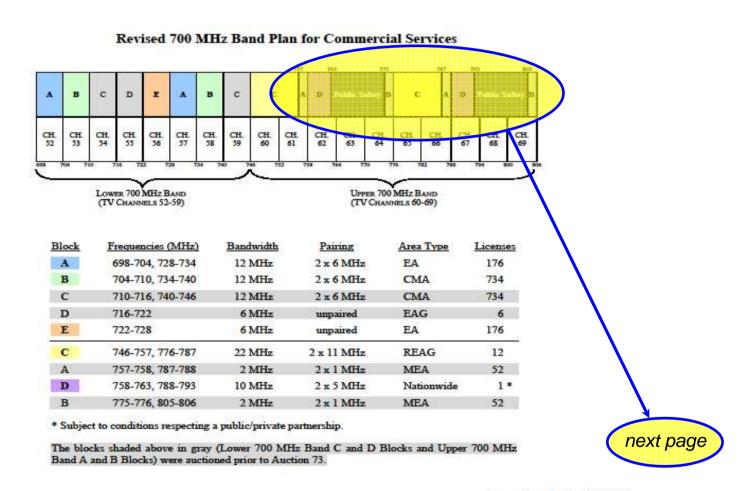


Broadband Related - 108 MHz





Public Safety - 24 of the 108 MHz

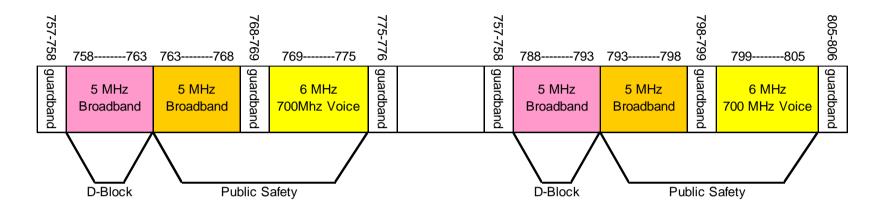


Last reviewed/updated 9/5/2007.

http://wireless.fcc.gov/auctions/data/bandplans/700MHzBandPlan.pdf



24 MHz - Voice and Broadband



- Public Safety portion
 - Split into Voice and Broadband
 - Split into Receive and Transmit
 - Voice is broken into 930 separate 6.5 kHz chunks
- D Block



History and Issues

- Bid for TV spectrum 2008
 - C-Block AT&T and Verizon
 - D-Block Bids did not meet the reserve price and it was taken off the market
- The Spectrum for Public Safety Broadband is becoming available
- Waiver Requests 21 Granted so far (including Mesa), 23 additional requests are pending (including Tucson)
- More spectrum may become available
 - Currently, FCC and the Administration are in favor of auctioning the D-Block to the private sector with Public Safety priority usage
 - Public Safety, State and Local Government are in favor of allocating the D-Block solely to Public Safety



Arizona & Broadband

Mesa – TOPAZ

- Arizona has 1 of first 21 waiver recipients working to utilize the 700 MHz Public Safety Broadband range
- Work with the Public Safety Communications
 Research Program (PSCR) and the Emergency
 Response Interoperability Center (ERIC) is
 beginning.
- A presentation regarding their plans will be made at the November 16th PSCC meeting.



Arizona & Broadband Funding

- SACCNet/GovNet Broadband BTOP grant
 - Build out of 316 microwave facilities and the downlinks funded.
 - Fixed location broadband much like cable access.
 Great for schools, libraries, etc.
 - No remote capability currently foreseen.



Observations & Guidance

- We need to address how Broadband impacts Interoperability
- We need to incorporate Broadband into the next Annual Update of the Statewide Communications Interoperability Plan (SCIP)
- How do we work with Public Safety Communications Research Program (PSCR), the Emergency Response Interoperability Center (ERIC) and the AZ waiver recipients?
- Do we submit a nomination for ERIC due Oct 1? (see Handout)



Questions

Discussion

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